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Substitute for form 1449A-PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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FEB 06 2006

Complete if Known

Application No.	10/649,473
Filing Date	August 26, 2003
First Named Inventor	KLINGENSMITH
Art Unit	2821-2624
Examiner Name	Not yet assigned S. Charan
Attorney Docket No.	895,675-173

Sheet

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of

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U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document No. Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/SCC/	1.	US-5,559,901	09/24/1996	Lobregt	
↓	2.	US-6,561,980	05/13/2003	Cheng	
	3.	US-6,785,409	08/31/2004	Suri	

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s) volume-issue number(s), publisher, city and/or country where published	T ²
/SCC/	4.	CHEN, C., LU, H., HSIAO, A., "A Dual-Snake Model of High Penetrability for Ultrasound Image Boundary Extraction", Ultrasound in Medicine and Biology, 2001, pp. 1651-1665, Vol. 27, No. 12, Elsevier, New York, U.S.A.	
↓	5.	KO, C., MAO, C., SUN, Y., CHANG, S., "A Fully Automated Identification of Coronary Borders from the Tree Structure of Coronary Angiograms", International Journal of Bio-Medical Computing, 1995, pp. 193-208, Vol. 39, No. 2, Elsevier, Barking, England	
	6.	KOVALSKI, G., BEYAR, R., SHOFTI, R., AZHARI, H., "Three-Dimensional Automatic Quantitative Analysis of Intravascular Ultrasound Images", Ultrasound in Medicine and Biology, 2000, pp. 527-537, Vol. 26, No. 4, Elsevier, New York, U.S.A.	
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Examiner
Signature

/Sheela Chawan/

Date
Considered

06/11/2007

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 If possible. 6 Applicant is to place a check mark here if English language Translation is attached.

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NBI:674959.1

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete If Known	
				Application Number	Not yet assigned
				Filing Date	Herewith
				First Named Inventor	KLINGENSMITH et al.
				Group Art Unit	2624
				Examiner Name	S. Chawan
				Attorney Docket Number	895,675-173
Sheet	1	of	2		

U.S. PATENT DOCUMENTS						
Examiner Initials *	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
/SCC/	AA	6,381,350		Klingensmith et al.	4/30/02	
/SCC/	AB	6,200,268		Vince et al.	3/13/01	
	AC					
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FOREIGN PATENT DOCUMENTS								
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		Office ³	Number ⁴	Kind Code ⁵ (If known)				
	AU							
	AV							
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	AX							
	AY							
	AZ							
	BA							
	BB							
	BC							

Examiner Signature	/Sheela Chawan/	Date Considered	06/11/2007
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¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
		Application Number	Not Yet Assigned		
		Filing Date	Herewith		
		First Named Inventor	KLINGENSMITH et al.		
		Group Art Unit	2628		
		Examiner Name	S. Chawan		
Sheet	2	of	2	Attorney Docket Number	895,675-173

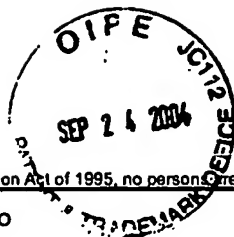
OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume–issue number(s), publisher, city and/or country where published.	T ²
/SCC/	BD	NAIR, A., KUBAN, B., OBUCHOWSKI, N., and VINCE, D., "Assessing Spectral Algorithms to Predict Atherosclerotic Plaque Composition With Normalized and Raw Intravascular Ultrasound Data", Ultrasound in Medicine and Biology, 2001, pp. 1319-1331, Vol. 27, No. 10, Elsevier, U.S.A.	
↓	BE	NAIR, A., KUBAN, B., TUZCU, E., SCHOENHAGEN, P., NISSEN, S., and VINCE, D., "Coronary Plaque Classification With Intravascular Ultrasound Radiofrequency Data Analysis", Circulation, 2002, pp. 2200-2206; 106, American Heart Association, U.S.A.	
↓	BF	KLINGENSMITH, J. and VINCE, D., "B-Spline Methods for Interactive Segmentation and Modeling of Lumen and Vessel Surfaces in Three-Dimensional Intravascular Ultrasound," Computerized Medical Imaging and Graphics 26, 2002, pp. 429-438, Elsevier Science Ltd., U.S.A.	
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Examiner Signature	/Sheela Chawan/	Date Considered	06/11/2007
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 2

Complete if Known

Application Number	10/649,473
Filing Date	08/26/2003
First Named Inventor	Klingensmith
Art Unit	2624-2624
Examiner Name	Not yet assigned S. Chaw
Attorney Docket Number	895,675-173

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
/SCC/	A01	US- 4,228,804	10/21/1980	Holasek	
	A02	US- 4,511,984	04/16/1985	Sumino	
	A03	US- 4,561,019	12/24/1985	Lizzi	
	A04	US- 4,575,799	03/11/1986	Miwa	
	A05	US- 4,858,124	08/15/1989	Lizzi	
	A06	US- 5,235,984	08/17/1993	D'Sa	
	A07	US- 5,363,850	11/15/1994	Soni	
	A08	US- 5,417,215	05/23/1995	Evans	
	A09	US- 5,445,155	08/29/1995	Sieben	
	A10	US- 5,724,972	03/10/1998	Petrofsky	
	A11	US- 5,876,343	03/02/99	Teo	
	A12	US- 5,885,218	03/23/1999	Teo	
	A13	US- 5,938,607	08/17/1999	Jago	
	A14	US- 5,957,138	09/28/1999	Lin	
	A15	US- 6,050,946	04/18/2000	Teo	
	A16	US- 6,095,976	08/01/2000	Nachotomy	
	A17	US- 6,106,460	08/22/2000	Panescu	
	A18	US- 6,106,465	08/22/2000	Napolitano	
	A19	US- 6,120,445	09/19/00	Grunwald	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ *Number ⁴ *Kind Code ⁵ (if known)				

Examiner Signature	/Sheela Chawan/	Date Considered	06/11/2007
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet **2**of **2****Complete if Known**Application Number **10/649,473**Filing Date **08/26/2003**First Named Inventor **Klingensmith**Art Unit **2621 2624**Examiner Name **Not yet assigned S. Chao**Attorney Docket Number **895,675-173****U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	A20	US- 6,152,878	11/28/2000	Nachotomy	
	A21	US- 6,217,517	04/17/2001	Grunwald	
	A22	US- 6,238,342	05/29/2001	Feleppa	
	A23	US- 6,254,541	07/03/2001	Teo	
	A24	US- 6,287,259	09/11/2001	Grunwald	
	A25	US- 6,306,089	10/23/2001	Coleman	
	A26	US- 6,335,980	01/01/2002	Armato	
	A27	US- 6,454,715	09/24/2002	Teo	
	A28	US- 6,514,202	02/04/2003	Grunwald	
	A29	US- 6,544,187	04/08/2003	Seward	
	A30	US- 2001/0014774	08/16/2001	Grunwald	
	A31	US- 2003/0028118	02/03/2003	Dupree	
	A32	US- 2003/0092993	05/15/2003	Grunwald	
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First Named Inventor	KLINGENSMITH
Art Unit	2624
Examiner Name	Not yet assigned S. Chawan
Attorney Docket No.	895,675-173

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↓	2.	6,120,445	09/19/2000	Grunwald	
	3.	6,381,350	04/30/2002	Klingensmith	

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NON PATENT LITERATURE DOCUMENTS

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/SCC/	5.	BRUINING, N., VON BIRGELEN, C., DE FEYTER, P., LIGTHART, J., SERRUYS, P., ROELANDT, J., "Dynamic Imaging of Coronary Stent Structures: An ECG-Gated Three-Dimensional Intracoronary Ultrasound Study in Humans", Ultrasound in Medicine and Biology, 1998, pp. 631-637, Vol. 24, No. 5, Elsevier, New York, U.S.A.	
↓	6.	IWASE, M., KONDO, T., HASEGAWA, K., KIMURA, M., MATSUYAMA, H., WATANABE, Y., HISHIDA, H., "Three-Dimensional Echocardiography by Semi-Automatic Border Detection in Assessment of Left Ventricular Volume and Ejection Fraction: Comparison with Magnetic Resonance Imaging", Journal of Cardiology, 1997, pp. 97-105, Vol. 30, No. 2, Japanese College of Cardiology, Tokyo, Japan	
	7.	KLINGENSMITH, J., VINCE, D., KUBAN, B., SHEKHAR, R., TUZCU, E., NISSEN, S., CORNHILL, J., "Assessment of Coronary Compensatory Enlargement by Three-Dimensional Intravascular Ultrasound", International Journal of Cardiac Imaging, 2000, pp. 87-98, Vol. 16, No. 2, Nijhoff, Boston, U.S.A.	
	8.	KLINGENSMITH, J., SHEKHAR, R., VINCE, D., "Evaluation of Three-Dimensional Segmentation Algorithms for the Identification of Luminal and Medial-Adventitial Borders in Intravascular Ultrasound Images", IEEE Transactions on Medical Imaging, 2000, pp. 996-1011, Vol. 19, No. 10, Institute of Electrical and Electronics Engineers, New York, U.S.A.	
↓	9.	LOBREGT, S., VIERGEVER, M., "A Discrete Dynamic Contour Model", IEEE Transactions on Medical Imaging, 1995, pp. 12-24, Vol. 14, No. 1, Institute of Electrical and Electronics Engineers, New York, U.S.A.	

NBI:662756. 1 Examiner
Signature

/Sheela Chawan/

Date
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06/11/2007

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Sheet	2	of	2	Attorney Docket No.	895,675-173

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/SCC/	10.	NAIR, A., KUBAN, B., OBUCHOWSKI, N., VINCE, D., "Assessing Spectral Algorithms to Predict Atherosclerotic Plaque Composition with Normalized and Raw Intravascular Ultrasound Data", Ultrasound in Medicine and Biology, 2001, pp. 1319-1331, Vol. 27, No. 10, Elsevier, New York, U.S.A.	
↓	11.	SEBBAHI, A., HERMENT, A., DE CESARE, A., MOUSSEAU, E., "Multimodality Cardiovascular Image Segmentation Using a Deformable Contour Model", Computerized Medical Imaging and Graphics, 1997, pp. 79-89, Vol. 21, No. 2, Pergamon Press, New York, U.S.A.	
	12.	TSUTSUI, H., ZIADA, K., SCHOENHAGEN, P., IYISOY, A., MAGYAR, W., CROWE, T., KLINGENSMITH, J., VINCE, D., RINCON, G., HOBBS, R., YAMAGISHI, M., NISSEN, S., TUZCU, E., "Lumen Loss in Transplant Coronary Artery Disease is a Biphasic Process Involving Early Intimal Thickening and Late Constrictive Remodeling: Results from a 5-Year Serial Intravascular Ultrasound Study", Circulation, 2001, pp. 653-657, Vol. 104, No. 6, American Heart Association, Dallas, U.S.A.	
	13.	VON BIRGELEN, C., DI MARIO, C., LI, W., SCHUURBIERS, J., SLAGER, C., DE FEYTER, P., ROELANDT, J., SERRUYS, P., "Morphometric Analysis in Three-Dimensional Intracoronary Ultrasound: An In Vitro and In Vivo Study Performed with a Novel System for the Contour Detection of Lumen and Plaque", American Heart Journal, 1996, pp. 516-527, Vol. 132, No. 3, Elsevier, St. Louis, U.S.A.	
	14.	VON BIRGELEN, C., DE VREY, E., MINTZ, G., NICOSIA, A., BRUINING, N., LI, W., SLAGER, C., ROELANDT, J., SERRUYS, P., DE FEYTER, P., "ECG-Gated Three-Dimensional Intravascular Ultrasound: Feasibility and Reproducibility of the Automated Analysis of Coronary Lumen and Atherosclerotic Plaque Dimensions in Humans", Circulation, 1997, pp. 2944-2952, Vol. 96, No. 9, American Heart Association, Dallas, U.S.A.	

NBI:662756. Examiner Signature	/Sheela Chawan/	Date Considered	06/11/2007
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